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01112B

First M.B.B.S. (2019) Examination Winter - 2022
PHYSIOLOGY - II

Total Duration : Section A + B = 3 Hours

Section B Marks : 80

SECTION - B

- Instructions :**
- 1) Use blue/black ball point pen only.
 - 2) Do not write anything on the blank portion of the question paper. Rough work should not be done on the Answer Sheets or anywhere on the Question Paper except the specific space provided for the rough work. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) All questions are compulsory.
 - 4) The number to the right indicates full marks.
 - 5) Draw diagrams wherever necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answerbook for section B.

2. Brief answer questions (any ten out of Eleven) : [10 × 2 = 20]

- a) Bell-Magendie's law.
- b) Renshaw cell inhibition.
- c) Two Differences between Upper Motor Neuron lesion and Lower Motor Neuron lesion.
- d) Motor innervation of extra and intrafusal muscle fibres.
- e) Heat Producing mechanisms in the body.
- f) Name two neurotransmitters in gaseous state.
- g) Two major differences between REM & NREM sleep.
- h) Nernst potential.
- i) Babinski's reflex.
- j) Effect of Thyroid hormone on CNS.
- k) Normal intra ocular pressure. What will be the result of its sustained elevation?

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3. Short answer question (any Eight out of nine): [8 × 5 = 40]

- a) Define Tone. Mention the conditions where it is increased and decreased.
- b) Enumerate the Laminas Of Rexed.
- c) i) What are the properties of neural receptors? [3]
 ii) Describe any 3 of them. [2]
- d) i) What is flexor withdrawal reflex? [2]
 ii) Describe the reflex arc. [3]
- e) Functions of Corpus Luteum.
- f) What are the effects of hemisection of spinal cord on sensory system?
- g) Accomodation to near vision.
- h) Physiological basis of fever.
- i) Excitation contraction coupling.

4. Long Answer Questions (Any Two out of Three) [2 × 10 = 20]

- a) Describe the pathway of fine touch sensation. [7]
 What is two point discrimination? [3]
- b) Describe the pathway of cortico spinal tract. [6]
 What is the cause of hyper reflexia in its lesion? [4]
- c) What are the effects of cortisol on metabolism? [5]
 What is the cause of impaired glucose tolerance in its hypersecretion? [5]

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